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LIST OF SYMBOLS

σ_{YS}	Yield strength (MPa)
ν	Poisson ratio
a	Crack length (mm), includes notch plus fatigue pre-crack
\AA	Atomic radius
B	Specimens thickness (mm)
BM	Base Metal
C(T)	Compact Tension
CH_4	Methane
CTOD	Crack tip opening displacement
E	Young's Modulus
EPFM	Elastic plastic fracture mechanics
F	Frequency
Fe	Ferrum
Fe_3C	Cementite
H_2	Hydrogen gas
HAZ	Heat affected zone
K_I	Stress intensity factor ($\text{MPa}\sqrt{\text{m}}$)
K_{IC}	Plane strain fracture Toughness ($\text{MPa}\sqrt{\text{m}}$)
K_Q	Critical stress intensity factor ($\text{MPa}\sqrt{\text{m}}$)
LEFM	Linear elastic fracture mechanics
P	Load (N)
P_{max}	Ultimate Load
P_Q	5% secant line to elastic loading slope (N)

R	Load ratio
r_p	Radius of the plastic zone
S	Span (mm)
SAW	Submerged arc welding
W	Specimen width
WM	Weld metal

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